

8/28/17

Work Order ID 165523

165523

Friday, August 25, 2017 8:01:14 AM

Page 1

Item ID: 647.8902 Accept *N900040100* Setup Start *NS1*
Revision ID: Stop *NS2*
Item Name: AW139 Cable Cutter System, Long
Start Date: 8/25/2017 Start Qty: 1.00 *1* Cust Item ID:
Required Date: 8/28/2017 Req'd Qty: 1.00 *1* Customer:
Reference:

Approvals: Process Plan: UM **DAS 21 9-89** Date: AUG 25 2017 Tooling: _____ Date: _____ Run Start *NR1*
QC: _____ Date: _____ SPC (Y/N): _____ Date: _____ Stop *NR2*

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
--------------------------------	--------------------------	----------------------	---------	--------	--------------	---------------	---------------	------------------	----------------

Draw Nbr	Revision Nbr	<u>AUG 25 2017</u> <u>SD</u>
647.8900	A	
100	Document Control	0.00
100	DOCUMENT CONTROL	
DC	Memo	0.00
Doc.Control -USB or Paperwork	Photocopy bluefile & type labels per PPP 647.8902	

DAS 27 9-89

AUG 28 2017

110	Pick Kit	0.00
110		
Packaging	Memo	0.00
Packaging		

1 AUG 25 2017 ml **DAS 28 9-89**

120	QC4- 100% Inspect kits for completeness	0.00
120		
QC	Memo	0.03
Quality Control		

DAS 27 9-89

AUG 28 2017

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐																																																													
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval																																																										
Description Work Order Deviation				Disposition				Completed By																																																									
								Lead hand / Supervisor Approval Verification																																																									
								QC / QA Coordinator Approval																																																									
Root Cause		FAULT CATEGORY																																																															
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐	Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐	Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐	Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐	Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐	Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐	Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐	Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐	LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐	Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐	Past Expiry Date ☐	Manufacturing Process ☐	OTHER : _____			
Misidentified ☐	Past Due ☐																																																																

Work Order ID 165523

165523

Page 2

Friday, August 25, 2017 8:01:14 AM

Item ID: 647.8902

Accept

N900040100

Setup Start *NS1*

Revision ID:

Stop *NS2*

Item Name: AW139 Cable Cutter System, Long

Start Date: 8/25/2017 Start Qty: 1.00

1

Cust Item ID:

Required Date: 8/28/2017 Req'd Qty: 1.00

1

Customer:

Reference:

Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____

Run Start *NR1*

QC: _____ Date: _____ SPC (Y/N): _____ Date: _____

Stop *NR2*

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
130	Identify as per dwg & Stock Location: _____	0.00							
130	Packaging								
Packaging	Memo	0.00							
	Identify and pack for shipping as per PPP 647.8902								
	Location : FG108								
140	QC21- Final Inspection - Work Order Release	0.00							
140									
QC	Memo	0.10							
Quality Control									

DAS
28
9-89

AUG 28 2017

DAS
21
9-89

AUG 29 2017

AUG 29 2017

DAS
21
9-89

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date : _____	Step #: _____	QTY Effective : _____		MRB (QS1042) Approval	
Description Work Order Deviation		Disposition		Completed By	
				Lead hand / Supervisor Approval Verification	
				QC / QA Coordinator Approval	
Root Cause		FAULT CATEGORY			
Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐	No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐	Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐	Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐	Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Misabeled ☐ Fit/Function ☐ Misaligned/off center ☐	Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐
OTHER : _____					

Picklist Print

Friday, August 25, 2017 8:01:11 AM

Page 1

Work Order ID: 165523

165523

Parent Item: 647.8902

647 8902

Parent Item Name: AW139 Cable Cutter System, Long

Start Date: 8/25/2017

Required Date: 8/28/2017

Start Qty: 1.00

Required Qty: 1.00

Comments: IPP REV:A 12.11.01 NEW ISSUE DD VERF:JLM

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
647.9001 *647 9001* Doubler Assembly		Manufactured	No			110	Each	9.0000	3	3			
									**				
					<u>Location</u>			<u>Loc Qty</u>		<u>Loc Code</u>			
					cck117			9					
					m129311			9		3			
647.9201 *647 9201* Upper Cutter Assembly		Manufactured	No			110	Each	36.0000	1	1			
									**				
					<u>Location</u>			<u>Loc Qty</u>		<u>Loc Code</u>			
					CCK057			16					
					128175			5					
					128325			5					
					92903			6		1			
					CCK058			20					
					121135			20					
647.9203 *647 9203* Lower Cutter Assembly, Long		Manufactured	No			110	Each	1.0000	1	1			
									**				
					<u>Location</u>			<u>Loc Qty</u>		<u>Loc Code</u>			
					cck029			1					
					162723			1		2/15/2019			
647.9401 *647 9401* Deflector Assembly		Manufactured	No			110	Each	3.0000	1	1			
									**				
					<u>Location</u>			<u>Loc Qty</u>		<u>Loc Code</u>			
					cck024			3					
					m129311			3		1			

DAS
28
9-89

AUG 28 2017

DAS
28
9-89

AUG 28 2017

DAS
28
9-89

AUG 28 2017

DAS
28
9-89

AUG 28 2017

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QS1042) Approval Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval		
Description Work Order Deviation				Disposition					
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Misabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐		OTHER : _____					

Picklist Print

Friday, August 25, 2017 8:01:12 AM

Page 2

Work Order ID: 165523

165523

Parent Item: 647.8902

647 8902

Parent Item Name: AW139 Cable Cutter System, Long

Start Date: 8/25/2017

Required Date: 8/28/2017

Start Qty: 1.00

Required Qty: 1.00

647.9501

Manufactured No

110

Each

20.0000

2

2

647 9501

Quick Release Pin Assembly

DAS
27
9-89

**

AUG 28 2017

DAS
28
9-89

Location

Loc Qty

Loc Code

CCK119

20

117306

20

2

647.9801

Manufactured No

110

Each

2.0000

1

1

647 9801

Mounting Tee Assembly

DAS
27
9-89

**

AUG 28 2017

DAS
28
9-89

Location

Loc Qty

Loc Code

CCK061

2

m129311

2

1

647.9012

Manufactured No

110

Each

63.0000

1

1

647 9012

Fwd Clip

DAS
27
9-89

**

AUG 28 2017

DAS
28
9-89

Location

Loc Qty

Loc Code

cck117

17

92980

14

m129311

3

1

cck122A

46

93255

46

1

647.9013

Manufactured No

110

Each

57.0000

1

1

647 9013

Fwd Clip

DAS
27
9-89

**

AUG 28 2017

DAS
28
9-89

Location

Loc Qty

Loc Code

cck117

4

125670

1

m129311

3

1

cck122A

53

92981

16

93167

37

Friday, August 25, 2017 8:01:12 AM

Shop Packet Print

Page 2

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date : _____		Step #: _____		QTY Effective : _____			MRB (QSI042) Approval		
Description Work Order Deviation				Disposition				Completed By	
								Lead hand / Supervisor Approval Verification	
								QC / QA Coordinator Approval	
Root Cause		FAULT CATEGORY							
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐				
Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐				
Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐				
Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐				
Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐				
Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐				
Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐				
Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐				
LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐				
Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐				
Past Expiry Date ☐	Manufacturing Process ☐	OTHER : _____							
Misidentified ☐	Past Due ☐								

Picklist Print

Friday, August 25, 2017 8:01:12 AM

Page 3

Work Order ID: 165523

165523

Parent Item: 647.8902

647 8902

Parent Item Name: AW139 Cable Cutter System, Long

Start Date: 8/25/2017

Required Date: 8/28/2017

Start Qty: 1.00

Required Qty: 1.00

647.9014

Manufactured No

110

Each

84.0000

2

2

647 9014

Strut Bracket

DAS
27
9-89

Location

Loc Qty

Loc Code

cck117

34

93290

34

cck122A

50

93290

50

AUG 28 2017

DAS
28
9-89

647.9016

Manufactured No

110

Each

51.0000

1

1

647 9016

Doubler

DAS
27
9-89

Location

Loc Qty

Loc Code

CCK084

51

92984

19

93386

30

m129311

2

AUG 28 2017

DAS
28
9-89

647.9110

Manufactured No

110

Each

1,335.000

26

26

647 9110

Thrusert

DAS
27
9-89

Location

Loc Qty

Loc Code

CCK118

220

93294

220

cck122A

1115

92972

260

93294

750

m129311

105

AUG 28 2017

DAS
28
9-89

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval		
Description Work Order Deviation				Disposition					
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Misabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐		OTHER : _____					

Picklist Print

Friday, August 25, 2017 8:01:12 AM

Page 4

Work Order ID: 165523

165523

Parent Item: 647.8902

647 8902

Parent Item Name: AW139 Cable Cutter System, Long

Start Date: 8/25/2017

Required Date: 8/28/2017

Start Qty: 1.00

Required Qty: 1.00

647.9111

Manufactured No

110

Each

354.0000

12

12

647 9111

Thrusert

Location

Loc Qty

Loc Code

CCK118

354

112960

8

92973

107

93340

180

m129311

59

DAS
27
9-89

AUG 28 2017

DAS
28
9-89

647.9112

Manufactured No

110

Each

314.0000

12

12

647 9112

Thrusert

Location

Loc Qty

Loc Code

CCK118

314

112514

19

92974

113

93380

120

m129311

62

DAS
27
9-89

AUG 28 2017

DAS
28
9-89

647.9113

Manufactured No

110

Each

413.0000

12

12

647 9113

Thrusert

Location

Loc Qty

Loc Code

CCK118

413

112475

15

92975

102

93335

246

m129311

50

DAS
27
9-89

AUG 28 2017

DAS
28
9-89

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval 		
Description Work Order Deviation				Disposition					
				Completed By					
				Lead hand / Supervisor Approval Verification					
				QC / QA Coordinator Approval					

Root Cause				FAULT CATEGORY			
Environment	☐	No Re-verification	☐	Pressure/Forced	☐	Temperature/Cure	☐
Design	☐	Operator	☐	Bending	☐	Set-up	☐
Doc/Data	☐	Offset/Setup	☐	Centre Not Concentric	☐	BOM/Route	☐
Equip/Tooling	☐	Supplier	☐	Cracks	☐	Broken/Damage/Defect	☐
Handling/Pre	☐	Training	☐	Crimp/Kink/Ripple/Wave	☐	Inspection Incomplete/Unqualified	☐
Material	☐	Use for Testing	☐	Cuffs	☐	Contamination	☐
Internal Transport	☐	Poor Information	☐	Crushing	☐	Countersink	☐
Tribal Knowledge	☐	Rushing	☐	Heat Treat	☐	Cut Too Short	☐
LOA	☐	Product Improvement	☐	Wave/Twist in Tube	☐	Instructions Incomplete/Unclear	☐
Substation	☐	Process Improvement	☐	Marks/Chatter	☐	Drill Holes	☐
Past Expiry Date	☐	Manufacturing Process	☐	OTHER : _____			
Misidentified	☐	Past Due	☐				

Picklist Print

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Work Order ID: 165523

165523

Parent Item: 647.8902

647 8902

Parent Item Name: AW139 Cable Cutter System, Long

Start Date: 8/25/2017

Required Date: 8/28/2017

Start Qty: 1.00

Required Qty: 1.00

647.9114

Manufactured No

110 Each

71.0000

2 2

647 9114

Thrusert

AUG 28 2017

DAS
28
9-89

DAS
27
9-89

Location

Loc Qty

Loc Code

CCK119

71

92976

18

93404

41

m129311

12

2

647.9312

Manufactured No

110 Each

53.0000

1 1

647 9312

Bracket

AUG 28 2017

DAS
28
9-89

DAS
27
9-89

Location

Loc Qty

Loc Code

CCK119

4

93826

1

m129311

3

cck122A

49

100486

8

101750

4

136935

8

94748

29

1

647.9313

Manufactured No

110 Each

57.0000

1 1

647 9313

Bracket

AUG 28 2017

DAS
28
9-89

DAS
27
9-89

Location

Loc Qty

Loc Code

cck086A

57

101469

3

102738

9

108717

4

93700

9

94459

29

m129311

3

1

Friday, August 25, 2017 8:01:12 AM

Shop Packet Print

Page 5

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval		
Description Work Order Deviation				Disposition				Completed By	
								Lead hand / Supervisor Approval Verification	
								QC / QA Coordinator Approval	
Root Cause		FAULT CATEGORY							
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐				
Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐				
Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐				
Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐				
Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐				
Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐				
Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐				
Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐				
LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐				
Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐				
Past Expiry Date ☐	Manufacturing Process ☐								
Misidentified ☐	Past Due ☐	OTHER : _____							

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Work Order ID: 165523

165523

Parent Item: 647.8902

647 8902

Parent Item Name: AW139 Cable Cutter System, Long

Start Date: 8/25/2017

Required Date: 8/28/2017

Start Qty: 1.00

Required Qty: 1.00

647.9314 Manufactured No

110 Each 55.0000 1 1

647 9314

Retainer Bracket

**

AUG 28 2017 DAS 28 9-89

Location Loc Qty Loc Code

cck086A

55

102946

5

105049

6

108833

3

93800

9

94686

29

m129311

3

647.9315 Manufactured No

110 Each 63.0000 1 1

647 9315

Receptacle Bracket

**

AUG 28 2017 DAS 28 9-89

Location Loc Qty Loc Code

CCK070

53

102910

9

106133

6

93779

8

94636

27

m129311

3

CCK094a

10

112394

10

647.9316 Manufactured No

110 Each 15.0000 1 1

647 9316

Crossbar Bracket

**

AUG 28 2017 DAS 28 9-89

Location Loc Qty Loc Code

CCK071

15

115397

10

95527

1

m129311

4

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Page 6

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date : _____		Step # : _____		QTY Effective : _____			MRB (QS1042) Approval Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval		
Description Work Order Deviation				Disposition					

Root Cause				FAULT CATEGORY			
Environment ☐	Design ☐	Doc/Data ☐	Equip/Tooling ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐
Handling/Pre ☐	Material ☐	Internal Transport ☐	Tribal Knowledge ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐
LOA ☐	Substation ☐	Past Expiry Date ☐	Misidentified ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐
				Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐
				Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐
				Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐
				Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐
				Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐
				Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐
				Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐
No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐				OTHER : _____			

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Work Order ID: 165523

165523

Parent Item: 647.8902

647 8902

Parent Item Name: AW139 Cable Cutter System, Long

Start Date: 8/25/2017

Required Date: 8/28/2017

Start Qty: 1.00

Required Qty: 1.00

647.9610 Manufactured No

110 Each 59.0000 1 1

647 9610

LH Fwd Wiper Deflector

AUG 28 2017 **DAS 28 9-89**

DAS 27 9-89

Location	Loc Qty	Loc Code
CCK078	59	
102825	14	
131242	2	
<u>93747</u>	10	
94562	31	
m129311	2	

647.9611 Manufactured No

110 Each 53.0000 1 1

647 9611

LH Aft Wiper Deflector

AUG 28 2017 **DAS 28 9-89**

DAS 27 9-89

Location	Loc Qty	Loc Code
CCK078	53	
102747	10	
107889	10	
93706	3	
94473	28	
<u>m129311</u>	2	

647.9612 Manufactured No

110 Each 68.0000 1 1

647 9612

RH Fwd Wiper Deflector

AUG 28 2017 **DAS 28 9-89**

DAS 27 9-89

Location	Loc Qty	Loc Code
cck069	68	
101482	4	
<u>102745</u>	11	
103406	4	
112208	10	
94471	28	
95982	8	
m129311	3	

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS <table style="width:100%; border: none;"> <tr> <td style="width:15%;">Skid-tube ☐</td> <td style="width:15%;">Cross tube ☐</td> <td style="width:15%;">Water Jet ☐</td> <td style="width:15%;">Engineering ☐</td> </tr> <tr> <td>Machining ☐</td> <td>Small Fab ☐</td> <td>Prod. Eng. Coord. ☐</td> <td>Quality ☐</td> </tr> <tr> <td>Thermoforming ☐</td> <td>Finishing ☐</td> <td>Rec/Store/Packaging ☐</td> <td>Other ☐</td> </tr> <tr> <td>Large Fab ☐</td> <td>Composite ☐</td> <td>Supplier ☐</td> <td></td> </tr> </table>						Skid-tube ☐	Cross tube ☐	Water Jet ☐	Engineering ☐	Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐	Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐	Large Fab ☐	Composite ☐	Supplier ☐	
Skid-tube ☐	Cross tube ☐	Water Jet ☐	Engineering ☐																						
Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐																						
Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐																						
Large Fab ☐	Composite ☐	Supplier ☐																							
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval																		
Description Work Order Deviation				Disposition				Completed By																	
								Lead hand / Supervisor Approval Verification																	
										QC / QA Coordinator Approval															
Root Cause		FAULT CATEGORY																							
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐																				
Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐																				
Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐																				
Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐																				
Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐																				
Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐																				
Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐																				
Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐																				
LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐																				
Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐																				
Past Expiry Date ☐	Manufacturing Process ☐	OTHER : _____																							
Misidentified ☐	Past Due ☐																								

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Work Order ID: 165523

165523

Parent Item: 647.8902

647 8902

Parent Item Name: AW139 Cable Cutter System, Long

Start Date: 8/25/2017

Required Date: 8/28/2017

Start Qty: 1.00

Required Qty: 1.00

647.9613

Manufactured No

110 Each

60.0000

1 1

647 9613

RH Aft Wiper Deflector

DAS
28
9-89

DAS
27
9-89

Location

Loc Qty

Loc Code

ckk069

60

101531

5

102795

10

103454

4

93728

7

94526

29

98929

3

m129311

2

AUG 25 2017

646.9910

Manufactured No

110 Each

4.0000

2 2

646 9910

Struts

DAS
27
9-89

Location

Loc Qty

Loc Code

CCK014

4

160520

4

AUG 25 2017

NAS6203-22D

Purchased No

110 Each

280.0000

4 4

NAS6203-22D

Bolt

DAS
27
9-89

Location

Loc Qty

Loc Code

st552

80

123533

34

m129311

46

ST559a

200

123900

200

AUG 25 2017

DAS
28
9-89

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval 		
Description Work Order Deviation				Disposition					
								Completed By	
								Lead hand / Supervisor Approval Verification	
								QC / QA Coordinator Approval	
Root Cause		FAULT CATEGORY							
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐				
Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐				
Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐				
Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐				
Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐				
Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐				
Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐				
Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐				
LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐				
Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐				
Past Expiry Date ☐	Manufacturing Process ☐	OTHER : _____							
Misidentified ☐	Past Due ☐								

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Work Order ID: 165523

165523

Parent Item: 647.8902

647 8902

Parent Item Name: AW139 Cable Cutter System, Long

Start Date: 8/25/2017

Required Date: 8/28/2017

Start Qty: 1.00

Required Qty: 1.00

NAS6203-26

Purchased

No

110

Each

307.0000

4

4

NAS6203-26

Bolt

DAS
27
9-89

Location

Loc Qty

Loc Code

st552

46

123533

46

ST559a

261

123900

261

**

AUG 25 2017

DAS
28
9-89

AN3-11A

Purchased

No

110

Each

152.0000

2

2

AN3-11A

Bolt

DAS
27
9-89

Location

Loc Qty

Loc Code

over003

100

m136192

100

ST349

52

m138230

52

**

AUG 25 2017

DAS
28
9-89

NAS1836-08-09

Purchased

No

110

Each

629.0000

16

16

NAS1836-08-09

Insert

DAS
27
9-89

Location

Loc Qty

Loc Code

ST264

595

124331

505

m129311

90

st549

34

123562

34

**

AUG 25 2017

DAS
28
9-89

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DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QS1042) Approval		
Description Work Order Deviation				Disposition				Completed By	
								Lead hand / Supervisor Approval Verification	
Root Cause		FAULT CATEGORY							
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐				
Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐				
Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐				
Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐				
Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐				
Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐				
Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐				
Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐				
LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐				
Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐				
Past Expiry Date ☐	Manufacturing Process ☐	OTHER :							
Misidentified ☐	Past Due ☐								

Picklist Print

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Work Order ID: 165523

Parent Item: 647.8902

Parent Item Name: AW139 Cable Cutter System, Long

165523
647 8902

Start Date: 8/25/2017

Required Date: 8/28/2017
Required Qty: 1.00

Start Qty: 1.00
14 14 944.0000

MS21141S-04-06

MS21141S-04-06 Purchased No

Rivet

DAS
27
9-89

Location
CCK005 123694
m127904 200
m129311 200
ST295 420
124387 420

Loc Qty
110 Each

Loc Code

** 12

972.0000

12
14
12

MS21141S-04-07

MS21141S-04-07 Purchased No

Rivet

DAS
27
9-89

Location
CCK005 124387
m126345 300
ST295 172
124387 172

Loc Qty
110 Each

Loc Code

** 18

590.0000

18
12
18

MS27039-1-14

MS27039-1-14 Purchased No

Screw

DAS
27
9-89

Location
GA 120449
over006 300
ST280 200
124326 200

Loc Qty
90 90 300 300 200

Loc Code

18
18

AUG 25 2017

DAS
28
9-89

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :				MRB (QSI042) Approval	
Description Work Order Deviation				Disposition				Completed By	
								Lead hand / Supervisor Approval Verification	
Root Cause		FAULT CATEGORY							
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐				
Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐				
Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐				
Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐				
Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐				
Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐				
Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐				
Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐				
LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐				
Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐				
Past Expiry Date ☐	Manufacturing Process ☐	OTHER :							
Misidentified ☐	Past Due ☐								

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Work Order ID: 165523

165523

Parent Item: 647.8902

647 8902

Parent Item Name: AW139 Cable Cutter System, Long

Start Date: 8/25/2017

Required Date: 8/28/2017

Start Qty: 1.00

Required Qty: 1.00

MS27039-1-19

Purchased

No

110

Each

420.0000

4

4

MS27039-1-19

Screw

AUG 25 2017

DAS
28
9-89

Location

Loc Qty

Loc Code

GA

80

m134134

80

over006

300

m138238

300

ST280

40

m137361

40

4

MS27039-1-11

Purchased

No

110

Each

261.0000

10

10

MS27039-1-11

Screw

AUG 25 2017

DAS
28
9-89

Location

Loc Qty

Loc Code

ST280

261

m137544

61

m138326

200

10

MS27039-1-20

Purchased

No

110

Each

43.0000

10

10

MS27039-1-20

Screw

AUG 25 2017

DAS
28
9-89

Location

Loc Qty

Loc Code

ST280

43

m136554

43

10

MS27039-1-17

Purchased

No

110

Each

132.0000

4

4

MS27039-1-17

Screw (601.1954)

AUG 25 2017

DAS
28
9-89

Location

Loc Qty

Loc Code

ST280

132

m127831

132

4

DAS
27
9-89

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DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QS1042) Approval 		
Description Work Order Deviation				Disposition					
							Completed By		
							Lead hand / Supervisor Approval Verification		
							QC / QA Coordinator Approval		

Root Cause				FAULT CATEGORY			
Environment	☐	No Re-verification	☐	Pressure/Forced	☐	Temperature/Cure	☐
Design	☐	Operator	☐	Bending	☐	Set-up	☐
Doc/Data	☐	Offset/Setup	☐	Centre Not Concentric	☐	BOM/Route	☐
Equip/Tooling	☐	Supplier	☐	Cracks	☐	Broken/Damage/Defect	☐
Handling/Pre	☐	Training	☐	Crimp/Kink/Ripple/Wave	☐	Inspection Incomplete/Unqualified	☐
Material	☐	Use for Testing	☐	Cuffs	☐	Contamination	☐
Internal Transport	☐	Poor Information	☐	Crushing	☐	Countersink	☐
Tribal Knowledge	☐	Rushing	☐	Heat Treat	☐	Cut Too Short	☐
LOA	☐	Product Improvement	☐	Wave/Twist in Tube	☐	Instructions Incomplete/Unclear	☐
Substation	☐	Process Improvement	☐	Marks/Chatter	☐	Drill Holes	☐
Past Expiry Date	☐	Manufacturing Process	☐	OTHER : _____			
Misidentified	☐	Past Due	☐				

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Work Order ID: 165523

165523

Parent Item: 647.8902

647 8902

Parent Item Name: AW139 Cable Cutter System, Long

Start Date: 8/25/2017

Required Date: 8/28/2017

Start Qty: 1.00

Required Qty: 1.00

MS27039-1-21

Purchased

No

110

Each

87.0000

4

4

MS27039-1-21

Screw

AUG 25 2017

DAS 28 9-89

DAS 27 9-89

Location

Loc Qty

Loc Code

ST280

87

m127904

87

4

MS27039-08-19

Purchased

No

110

Each

134.0000

6

6

MS27039-08-19

Screw

AUG 25 2017

DAS 28 9-89

DAS 27 9-89

Location

Loc Qty

Loc Code

GA

127

m135948

26

m137178

3

m138237

98

ST277

7

m138207

7

6

MS27039-08-11

Purchased

No

110

Each

1,708.000

2

2

MS27039-08-11

SCREW

AUG 25 2017

DAS 28 9-89

DAS 27 9-89

Location

Loc Qty

Loc Code

over006

1700

m138336

1700

ST278

8

m137412

8

2

MS27039-08-13

Purchased

No

110

Each

192.0000

2

2

MS27039-08-13

Screw

AUG 25 2017

DAS 28 9-89

DAS 27 9-89

Location

Loc Qty

Loc Code

ST278

192

153849

192

2

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Page 12

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS <table style="width:100%; border: none;"> <tr> <td style="width:15%;">Skid-tube ☐</td> <td style="width:15%;">Cross tube ☐</td> <td style="width:15%;">Water Jet ☐</td> <td style="width:15%;">Engineering ☐</td> </tr> <tr> <td>Machining ☐</td> <td>Small Fab ☐</td> <td>Prod. Eng. Coord. ☐</td> <td>Quality ☐</td> </tr> <tr> <td>Thermoforming ☐</td> <td>Finishing ☐</td> <td>Rec/Store/Packaging ☐</td> <td>Other ☐</td> </tr> <tr> <td>Large Fab ☐</td> <td>Composite ☐</td> <td>Supplier ☐</td> <td></td> </tr> </table>						Skid-tube ☐	Cross tube ☐	Water Jet ☐	Engineering ☐	Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐	Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐	Large Fab ☐	Composite ☐	Supplier ☐																																							
Skid-tube ☐	Cross tube ☐	Water Jet ☐	Engineering ☐																																																												
Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐																																																												
Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐																																																												
Large Fab ☐	Composite ☐	Supplier ☐																																																													
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval																																																								
Description Work Order Deviation				Disposition				Completed By																																																							
								Lead hand / Supervisor Approval Verification																																																							
								QC / QA Coordinator Approval																																																							
Root Cause		FAULT CATEGORY																																																													
Environment ☐	Design ☐	Doc/Data ☐	Equip/Tooling ☐	Handling/Pre ☐	Material ☐	Internal Transport ☐	Tribal Knowledge ☐	LOA ☐	Substation ☐	Past Expiry Date ☐	Misidentified ☐	No Re-verification ☐	Operator ☐	Offset/Setup ☐	Supplier ☐	Training ☐	Use for Testing ☐	Poor Information ☐	Rushing ☐	Product Improvement ☐	Process Improvement ☐	Manufacturing Process ☐	Past Due ☐	Pressure/Forced ☐	Bending ☐	Centre Not Concentric ☐	Cracks ☐	Crimp/Kink/Ripple/Wave ☐	Cuffs ☐	Crushing ☐	Heat Treat ☐	Wave/Twist in Tube ☐	Marks/Chatter ☐	Temperature/Cure ☐	Set-up ☐	BOM/Route ☐	Broken/Damage/Defect ☐	Inspection Incomplete/Unqualified ☐	Contamination ☐	Countersink ☐	Cut Too Short ☐	Instructions Incomplete/Unclear ☐	Drill Holes ☐	Power Loss/Surge ☐	Folio/Program ☐	Grain ☐	Weld ☐	Wrong Stock Pulled ☐	Out of Sequence ☐	Off-set ☐	Mislabeled ☐	Fit/Function ☐	Misaligned/off center ☐	Positioned Wrong ☐	Outside Dimensions ☐	Over/Under tolerance ☐	Part Incorrect ☐	Part Lost/Missing ☐	Part Moved ☐	Drawing ☐	Finish ☐	Misread ☐	Turning Sequence ☐
OTHER : _____																																																															

Picklist Print

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Work Order ID: 165523

165523

Parent Item: 647.8902

647 8902

Parent Item Name: AW139 Cable Cutter System, Long

Start Date: 8/25/2017

Required Date: 8/28/2017

Start Qty: 1.00

Required Qty: 1.00

MS27039-1-18

Purchased

No

110

Each

1,523.000

34

34

MS27039-1-18

Screw

AUG 25 2017

DAS
28
9-89

DAS
27
9-89

Location

Loc Qty

Loc Code

GA

217

123522

35

124326

182

over006

1200

124326

1200

ST280

106

124326

106

34

MS27039-1-15

Purchased

No

110

Each

123.0000

10

10

MS27039-1-15

Screw

AUG 25 2017

DAS
28
9-89

DAS
27
9-89

Location

Loc Qty

Loc Code

GA

47

m127916

1

m136554

46

ST280

76

m136406

1

m137886

75

10

MS27039-1-09

Purchased

No

110

Each

143.0000

8

8

MS27039-1-09

Screw

AUG 25 2017

DAS
28
9-89

DAS
27
9-89

Location

Loc Qty

Loc Code

FP001

17

18057

17

GA

18

124859

18

ST280

108

m137544

108

8

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Shop Packet Print

Page 13

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date :	Step #:	QTY Effective :		MRB (QSI042) Approval	
Description Work Order Deviation		Disposition		Completed By	
				Lead hand / Supervisor Approval Verification	
				QC / QA Coordinator Approval	
Root Cause		FAULT CATEGORY			
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐
Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐
Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐
Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐
Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐
Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐
Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐
Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐
LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐
Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐
Past Expiry Date ☐	Manufacturing Process ☐	OTHER :			
Misidentified ☐	Past Due ☐				

Picklist Print

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Page 14

Work Order ID: 165523

165523

Parent Item: 647.8902

647 8902

Parent Item Name: AW139 Cable Cutter System, Long

Start Date: 8/25/2017

Required Date: 8/28/2017

Start Qty: 1.00

Required Qty: 1.00

MS27039-08-04

Purchased

No

110

Each

1,330.000

16

16

MS27039-08-04

SCREW

DAS
28
9-89

Location

Loc Qty

Loc Code

over006

900

123900

400

125654

500

ST278

430

109752

246

m129311

184

AUG 25 2017

DAS
27
9-89

16

MS27039-1-13

Purchased

No

110

Each

462.0000

6

6

MS27039-1-13

Screw

DAS
28
9-89

Location

Loc Qty

Loc Code

GA

2

124326

2

over006

300

124326

300

ST280

160

125654

160

AUG 25 2017

DAS
27
9-89

6

NAS1149F0332P

Purchased

No

110

Each

2,020.000

8

8

NAS1149F0332P

Washer

DAS
28
9-89

Location

Loc Qty

Loc Code

GA

125

m133709

125

ST262

1895

m137710

1

m138209

1894

AUG 25 2017

DAS
27
9-89

8

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Page 14

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval		
Description Work Order Deviation				Disposition				Completed By	
								Lead hand / Supervisor Approval Verification	
								QC / QA Coordinator Approval	
Root Cause		FAULT CATEGORY							
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐				
Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐				
Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐				
Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐				
Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐				
Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐				
Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐				
Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐				
LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐				
Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐				
Past Expiry Date ☐	Manufacturing Process ☐	OTHER : _____							
Misidentified ☐	Past Due ☐								

Picklist Print

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Work Order ID: 165523

165523

Parent Item: 647.8902

647 8902

Parent Item Name: AW139 Cable Cutter System, Long

Start Date: 8/25/2017

Required Date: 8/28/2017

Start Qty: 1.00

Required Qty: 1.00

NAS1149CN832R

Purchased

No

110

Each

241.0000

16

16

NAS1149CN832R

Washer

Location

Loc Qty

Loc Code

ST266

241

124580

241

AUG 25 2017

DAS
28
9-89

NAS1149C0332R

Purchased

No

110

Each

4,807.000

190

190

NAS1149C0332R

WASHER

Location

Loc Qty

Loc Code

FP001

2861

m137851

1946

m137951

9

m138237

906

GA

470

m133284

22

m136444

448

ST260a

1000

m138207

1000

ST266

476

m137381

476

AUG 25 2017

DAS
28
9-89

NAS1149FN832P

Purchased

No

110

Each

5,467.000

30

30

NAS1149FN832P

Washer

Location

Loc Qty

Loc Code

GA

294

M137820

294

ST260a

5000

M138336

5000

ST263

173

M137820

173

AUG 25 2017

DAS
28
9-89

DAS
27
9-89

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DQA: _____ Date: _____

WORK ORDER NON-CONFORMANCE / UPDATE



QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval		
Description Work Order Deviation				Disposition				Completed By	
								Lead hand / Supervisor Approval Verification	
								QC / QA Coordinator Approval	
Root Cause		FAULT CATEGORY							
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐				
Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐				
Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐				
Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐				
Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐				
Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐				
Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐				
Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐				
LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐				
Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐				
Past Expiry Date ☐	Manufacturing Process ☐	OTHER : _____							
Misidentified ☐	Past Due ☐								

Picklist Print

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Work Order ID: 165523

165523

Parent Item: 647.8902

647 8902

Parent Item Name: AW139 Cable Cutter System, Long

Start Date: 8/25/2017

Required Date: 8/28/2017

Start Qty: 1.00

Required Qty: 1.00

MS21042L08

Purchased

No

110

Each

1,972.000

13

13

MS21042L08

Nut

**

AUG 25 2017

DAS
28
9-89LocationLoc QtyLoc Code

GA

94

m135978

94

OVER007

1600

m138333

1600

ST303

278

m138207

125

m138237

153

13

MS21042-3

MS21042L3

Purchased

No

110

Each

0.0000

82

82

MS21042-3

Nut

**

AUG 25 2017

DAS
28
9-89

600.1012

Purchased

No

110

Each

17.0000

1

1

600 1012

Sealant PR1425B2 (#654 sem)

**

AUG 25 2017

DAS
28
9-89LocationLoc QtyLoc Code

cck017

17

m137699

1

m138084

6

m138326

10

AUG 25 2017

601.2045

Purchased

No

110

Each

13.0000

1

1

601 2045

RTV (LOCTITE 598) McMaster p/n: 6641A41

**

AUG 25 2017

DAS
28
9-89LocationLoc QtyLoc Code

CCK096

5

m137538

5

GA

8

m134260

8

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DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval		
Description Work Order Deviation				Disposition				Completed By	
								Lead hand / Supervisor Approval Verification	
								QC / QA Coordinator Approval	
Root Cause		FAULT CATEGORY							
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐				
Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐				
Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐				
Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐				
Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐				
Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐				
Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐				
Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐				
LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐				
Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐				
Past Expiry Date ☐	Manufacturing Process ☐	OTHER :							
Misidentified ☐	Past Due ☐								

Picklist Print

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Work Order ID: 165523

165523

Parent Item: 647.8902

647 8902

Parent Item Name: AW139 Cable Cutter System, Long

Start Date: 8/25/2017

Required Date: 8/28/2017

Start Qty: 1.00

Required Qty: 1.00

MS21140S-04-04

Purchased

No

110

Each

1,312.000

12

12

MS21140S-04-04

Rivet

AUG 25 2017

DAS
28
9-89

Location

Loc Qty

Loc Code

CCK005

480

124387

480

ST296

832

123694

77

124387

555

m126266

200

12

DAS
27
9-89

647.9310

Manufactured

No

110

Each

52.0000

1

1

647 9310

LH Bracket

AUG 25 2017

DAS
28
9-89

Location

Loc Qty

Loc Code

CCK085

52

104503

9

112282

10

93736

10

94541

20

m129311

3

1

DAS
27
9-89

647.9317

Manufactured

No

110

Each

36.0000

1

1

647 9317

RH Bracket

AUG 25 2017

DAS
28
9-89

Location

Loc Qty

Loc Code

CCK071

36

105043

2

106164

3

94680

19

98984

8

m129311

4

1

DAS
27
9-89

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date : _____		Step #: _____		QTY Effective : _____			MRB (QS1042) Approval		
Description Work Order Deviation				Disposition				Completed By	
								Lead hand / Supervisor Approval Verification	
								QC / QA Coordinator Approval	
Root Cause		FAULT CATEGORY							
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐				
Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐				
Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐				
Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐				
Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐				
Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐				
Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐				
Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐				
LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐				
Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐				
Past Expiry Date ☐	Manufacturing Process ☐	OTHER : _____							
Misidentified ☐	Past Due ☐								

Picklist Print

Friday, August 25, 2017 8:01:13 AM

Page 18

Work Order ID: 165523

165523

Parent Item: 647.8902

647 8902

Parent Item Name: AW139 Cable Cutter System, Long

Start Date: 8/25/2017

Required Date: 8/28/2017

Start Qty: 1.00

Required Qty: 1.00

MS27039-08-24

Purchased

No

110

Each

102.0000

5

5

MS27039-08-24

Screw (MS27039-0824)

Location

Loc Qty

Loc Code

GA

102

124326

102

5

AUG 25 2017

DAS
27
9-89

DAS
9
9-89

DAS
28
9-8

Friday, August 25, 2017 8:01:14 AM

Shop Packet Print

Page 18

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date : _____	Step #: _____	QTY Effective : _____		MRB (QSI042) Approval	
Description Work Order Deviation		Disposition		Completed By	
				Lead hand / Supervisor Approval Verification	
				QC / QA Coordinator Approval	
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Misabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐			
OTHER : _____					

NOTES:

1. AFTER INSTALLATION, APPLY F/N 57 A/R TO FILL GAPS AND FILLET EDGES.
2. APPLY F/N 58 TO FAYING SURFACES.

SHOP COPY
RETURN TO
ENGINEERING
UNCONTROLLED COPY
SUBJECT TO APPROVAL
WITHOUT
WORK ORDER
NO. 16523

U4 AUG 25 2017

5	5			5	5	62	601.3124	SCREW	MS27039-0824	
1	1			1	1	41	647.9317	RH BRACKET		
1	1			1	1	60	647.9310	LH BRACKET		
12	12	12	12	12	12	59	601.3186	RIVET	MS211405-04-04	
				1	1	58	601.2045	RTV	LOCITE 598	
				1	1	57	600.1012	SEALANT	PR-1425 CLASS B	
46	46	34	50	82	82	56	601.2943	LOCKNUT	MS21042-3	
13	13		8	13	13	55	601.1541	LOCKNUT	MS21042L08	
30	30		20	30	30	54	601.2764	WASHER	NAS1149FN832P	
118	118	76	126	190	190	53	601.1032	WASHER	NAS1149C0332P	
		16	16	16	16	52	601.1869	WASHER	NAS1149CN832P	
8	8		8	8	8	51	601.1607	WASHER	NAS1149F0332P	
6	6		6	6	6	50	601.3190	SCREW	MS27039-1-13	
		16	16	16	16	49	601.3180	SCREW	MS27039-0804	
		8		8	8	48	601.3069	SCREW	MS27039-1-09	
10	10		10	10	10	47	601.3012	SCREW	MS27039-1-15	
34	34	8	34	34	34	46	601.2910	SCREW	MS27039-1-18	
2	2		2	2	2	45	601.2988	SCREW	MS27039-0813	
2	2		2	2	2	44	601.2893	SCREW	MS27039-0811	
6	6		6	6	6	43	601.2765	SCREW	MS27039-0819	
4	4		4	4	4	42	601.1956	SCREW	MS27039-1-21	
2	2		2	4	4	41	601.1954	SCREW	MS27039-1-17	
		10		10	10	40	601.1952	SCREW	MS27039-1-20	
6	6	4	6	10	10	39	601.1949	SCREW	MS27039-1-11	
4	4		4	4	4	38	601.1948	SCREW	MS27039-1-19	
6	6	12	18	18	18	37	601.1622	SCREW	MS27039-1-14	
8906	8905	8904	8903	8902	8901	8900	PART #	DESCRIPTION	MATL	SPEC

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
	(LAST PROTOTYPE RELEASE; PR)		N/C
	FINAL RELEASE		P. BRAYO
N/C		06-29-90	P. BRAYO
A	INCORPORATED EOMS 02990 03071, 03217, 03279	11-28-11	P. BRAYO

12	12		12	12	12	36	601.3188	RVET	MS211415-04-07
14	14		14	14	14	35	601.3187	RVET	MS211415-04-06
		16	16	16	16	34	601.3189	INSERT	NAS1836-08-09
2	2		2	2	2	33	601.2826	BOLT	AN3-11A
4	4			4	4	32	601.1866	BOLT	NAS6203-26
4	4			4	4	31	601.1850	BOLT	NAS6203-22D
2	2		2	2	2	30	646.9910	STRUT	
1	1		1	1	1	29	647.9613	RH WIPER DEFLECTOR	
1	1		1	1	1	28	647.9612	RH FWD WIPER DEFLECTOR	
1	1		1	1	1	27	647.9611	LH WIPER DEFLECTOR	
1	1		1	1	1	26	647.9610	LH FWD WIPER DEFLECTOR	
1	1		1	1	1	25	647.9316	CROSSBAR BRACKET	
1	1		1	1	1	24	647.9315	RECEPTACLE BRACKET	
1	1		1	1	1	23	647.9314	RETAINER BRACKET	
1	1		1	1	1	22	647.9313	BRACKET	
1	1		1	1	1	21	647.9312	BRACKET	
		1		REF	REF	20	647.9311	SUPPORT BRACKET	
				2	2	19	647.9114	THRUSERT	
		12	12	12	12	18	647.9113	THRUSERT	
		12	12	12	12	17	647.9112	THRUSERT	
2	2	10	2	12	12	16	647.9111	THRUSERT	
25	25	20	26	26	26	15	647.9110	THRUSERT	
		1	1	1	1	14	647.9016	DOUBLER	△
		1		REF	REF	13	647.9015	DOUBLER	
2	2		2	2	2	12	647.9014	STRUT BRACKET	
1	1		1	1	1	11	647.9013	FWD CLIP	
1	1		1	1	1	10	647.9012	FWD CLIP	△
		1	REF	REF	REF	9	647.9011	DOUBLER	
		1	REF	REF	REF	8	647.9010	DOUBLER	
1	1		1	1	1	7	647.9801	MOUNTING TEE ASSY	
2	2		2	2	2	6	647.9501	QUICK RELEASE PIN ASSY	
1	1		1	1	1	5	647.9401	DEFLECTOR ASSY	
	1		1	1	1	4	647.9203	LOWER CUTTER LONG ASSY	
1				1	1	3	647.9202	LOWER CUTTER ASSY	
1	1		1	1	1	2	647.9201	UPPER CUTTER ASSY	
		3	3	3	3	1	647.9001	DOUBLER ASSY	
							647.8906	AW139 CABLE CUTTERS REMOVABLE PROVISIONS KIT	
							647.8905	AW139 CABLE CUTTERS REMOVABLE PROVISIONS KIT LONG	
							647.8904	AW139 CABLE CUTTERS FIXED PROVISIONS KIT	
							647.8903	AW139 UPPER CABLE CUTTERS KIT	
							647.8902	AW139 CABLE CUTTERS KIT LONG	
							647.8901	AW139 CABLE CUTTERS KIT	

8906	8905	8904	8903	8902	8901	8900	PART #	DESCRIPTION	MATL	SPEC
QTY						PARTS LIST				
NEXT ASSY (\$)						ORIGINAL DATE 06-11-80 DESIGNED BY D. W. BRANCO DRAWN BY P. BRANCO P. BRANCO CHECKED BY P. BRANCO APPROVAL P. BRANCO DATE 06-11-80 CONTRACT NO.				
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES DECIMALS ARE: 1/16" = .0625" 1/8" = .125" 1/4" = .25" 3/8" = .375" 1/2" = .50" 5/8" = .625" 3/4" = .75" 7/8" = .875" 1" = 1.00" 1 1/8" = 1.125" 1 1/4" = 1.25" 1 3/8" = 1.375" 1 1/2" = 1.50" 1 5/8" = 1.625" 1 3/4" = 1.75" 1 7/8" = 1.875" 2" = 2.00" 2 1/8" = 2.125" 2 1/4" = 2.25" 2 3/8" = 2.375" 2 1/2" = 2.50" 2 5/8" = 2.625" 2 3/4" = 2.75" 2 7/8" = 2.875" 3" = 3.00" 3 1/8" = 3.125" 3 1/4" = 3.25" 3 3/8" = 3.375" 3 1/2" = 3.50" 3 5/8" = 3.625" 3 3/4" = 3.75" 3 7/8" = 3.875" 4" = 4.00" 4 1/8" = 4.125" 4 1/4" = 4.25" 4 3/8" = 4.375" 4 1/2" = 4.50" 4 5/8" = 4.625" 4 3/4" = 4.75" 4 7/8" = 4.875" 5" = 5.00" 5 1/8" = 5.125" 5 1/4" = 5.25" 5 3/8" = 5.375" 5 1/2" = 5.50" 5 5/8" = 5.625" 5 3/4" = 5.75" 5 7/8" = 5.875" 6" = 6.00" 6 1/8" = 6.125" 6 1/4" = 6.25" 6 3/8" = 6.375" 6 1/2" = 6.50" 6 5/8" = 6.625" 6 3/4" = 6.75" 6 7/8" = 6.875" 7" = 7.00" 7 1/8" = 7.125" 7 1/4" = 7.25" 7 3/8" = 7.375" 7 1/2" = 7.50" 7 5/8" = 7.625" 7 3/4" = 7.75" 7 7/8" = 7.875" 8" = 8.00" 8 1/8" = 8.125" 8 1/4" = 8.25" 8 3/8" = 8.375" 8 1/2" = 8.50" 8 5/8" = 8.625" 8 3/4" = 8.75" 8 7/8" = 8.875" 9" = 9.00" 9 1/8" = 9.125" 9 1/4" = 9.25" 9 3/8" = 9.375" 9 1/2" = 9.50" 9 5/8" = 9.625" 9 3/4" = 9.75" 9 7/8" = 9.875" 10" = 10.00" 10 1/8" = 10.125" 10 1/4" = 10.25" 10 3/8" = 10.375" 10 1/2" = 10.50" 10 5/8" = 10.625" 10 3/4" = 10.75" 10 7/8" = 10.875" 11" = 11.00" 11 1/8" = 11.125" 11 1/4" = 11.25" 11 3/8" = 11.375" 11 1/2" = 11.50" 11 5/8" = 11.625" 11 3/4" = 11.75" 11 7/8" = 11.875" 12" = 12.00" 12 1/8" = 12.125" 12 1/4" = 12.25" 12 3/8" = 12.375" 12 1/2" = 12.50" 12 5/8" = 12.625" 12 3/4" = 12.75" 12 7/8" = 12.875" 13" = 13.00" 13 1/8" = 13.125" 13 1/4" = 13.25" 13 3/8" = 13.375" 13 1/2" = 13.50" 13 5/8" = 13.625" 13 3/4" = 13.75" 13 7/8" = 13.875" 14" = 14.00" 14 1/8" = 14.125" 14 1/4" = 14.25" 14 3/8" = 14.375" 14 1/2" = 14.50" 14 5/8" = 14.625" 14 3/4" = 14.75" 14 7/8" = 14.875" 15" = 15.00" 15 1/8" = 15.125" 15 1/4" = 15.25" 15 3/8" = 15.375" 15 1/2" = 15.50" 15 5/8" = 15.625" 15 3/4" = 15.75" 15 7/8" = 15.875" 16" = 16.00" 16 1/8" = 16.125" 16 1/4" = 16.25" 16 3/8" = 16.375" 16 1/2" = 16.50" 16 5/8" = 16.625" 16 3/4" = 16.75" 16 7/8" = 16.875" 17" = 17.00" 17 1/8" = 17.125" 17 1/4" = 17.25" 17 3/8" = 17.375" 17 1/2" = 17.50" 17 5/8" = 17.625" 17 3/4" = 17.75" 17 7/8" = 17.875" 18" = 18.00" 18 1/8" = 18.125" 18 1/4" = 18.25" 18 3/8" = 18.375" 18 1/2" = 18.50" 18 5/8" = 18.625" 18 3/4" = 18.75" 18 7/8" = 18.875" 19" = 19.00" 19 1/8" = 19.125" 19 1/4" = 19.25" 19 3/8" = 19.375" 19 1/2" = 19.50" 19 5/8" = 19.625" 19 3/4" = 19.75" 19 7/8" = 19.875" 20" = 20.00" 20 1/8" = 20.125" 20 1/4" = 20.25" 20 3/8" = 20.375" 20 1/2" = 20.50" 20 5/8" = 20.625" 20 3/4" = 20.75" 20 7/8" = 20.875" 21" = 21.00" 21 1/8" = 21.125" 21 1/4" = 21.25" 21 3/8" = 21.375" 21 1/2" = 21.50" 21 5/8" = 21.625" 21 3/4" = 21.75" 21 7/8" = 21.875" 22" = 22.00" 22 1/8" = 22.125" 22 1/4" = 22.25" 22 3/8" = 22.375" 22 1/2" = 22.50" 22 5/8" = 22.625" 22 3/4" = 22.75" 22 7/8" = 22.875" 23" = 23.00" 23 1/8" = 23.125" 23 1/4" = 23.25" 23 3/8" = 23.375" 23 1/2" = 23.50" 23 5/8" = 23.625" 23 3/4" = 23.75" 23 7/8" = 23.875" 24" = 24.00" 24 1/8" = 24.125" 24 1/4" = 24.25" 24 3/8" = 24.375" 24 1/2" = 24.50" 24 5/8" = 24.625" 24 3/4" = 24.75" 24 7/8" = 24.875" 25" = 25.00" 25 1/8" = 25.125" 25 1/4" = 25.25" 25 3/8" = 25.375" 25 1/2" = 25.50" 25 5/8" = 25.625" 25 3/4" = 25.75" 25 7/8" = 25.875" 26" = 26.00" 26 1/8" = 26.125" 26 1/4" = 26.25" 26 3/8" = 26.375" 26 1/2" = 26.50" 26 5/8" = 26.625" 26 3/4" = 26.75" 26 7/8" = 26.875" 27" = 27.00" 27 1/8" = 27.125" 27 1/4" = 27.25" 27 3/8" = 27.375" 27 1/2" = 27.50" 27 5/8" = 27.625" 27 3/4" = 27.75" 27 7/8" = 27.875" 28" = 28.00" 28 1/8" = 28.125" 28 1/4" = 28.25" 28 3/8" = 28.375" 28 1/2" = 28.50" 28 5/8" = 28.625" 28 3/4" = 28.75" 28 7/8" = 28.875" 29" = 29.00" 29 1/8" = 29.125" 29 1/4" = 29.25" 29 3/8" = 29.375" 29 1/2" = 29.50" 29 5/8" = 29.625" 29 3/4" = 29.75" 29 7/8" = 29.875" 30" = 30.00" 30 1/8" = 30.125" 30 1/4" = 30.25" 30 3/8" = 30.375" 30 1/2" = 30.50" 30 5/8" = 30.625" 30 3/4" = 30.75" 30 7/8" = 30.875"						APICAL INDUSTRIES 2608 TEMPLE HEIGHTS DR. OCEANSIDE, CA. 92056-3512 (760)724-5312				
						AW139 CABLE CUTTERS KIT				

DQA: _____ Date: _____



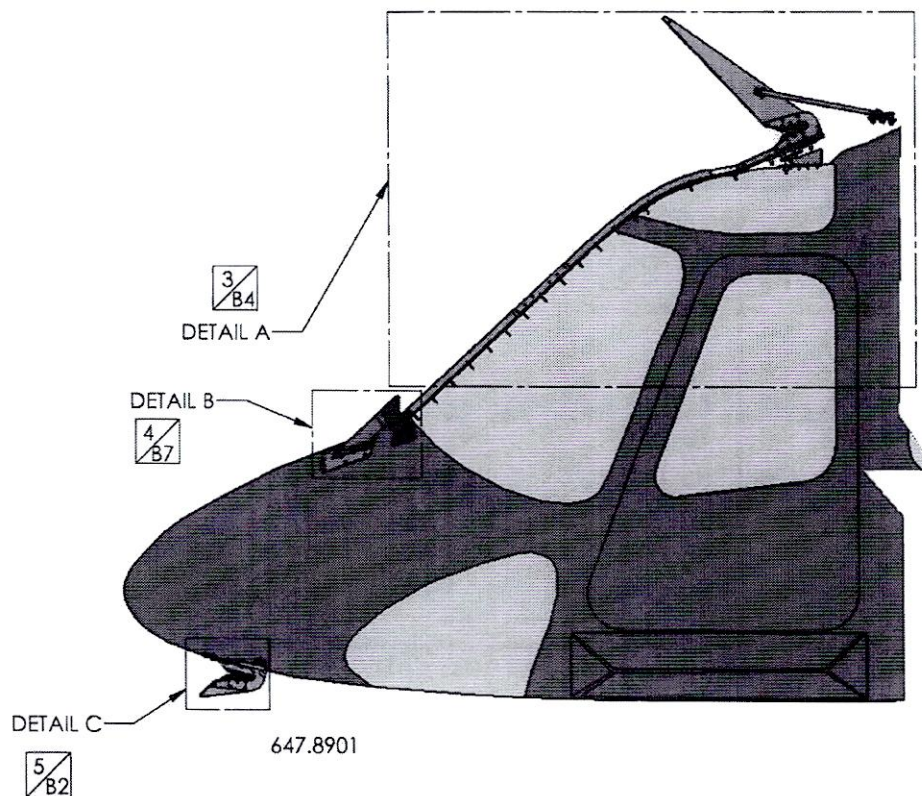
WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QS1042) Approval Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval		
Description Work Order Deviation				Disposition					
Root Cause		FAULT CATEGORY							
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐				
Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐				
Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐				
Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐				
Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐				
Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐				
Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐				
Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐				
LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐				
Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐				
Past Expiry Date ☐	Manufacturing Process ☐	OTHER :							
Misidentified ☐	Past Due ☐								

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ORIGINAL DATE JANUARY 1990 20-17-30		APICAL INDUSTRIES 2608 TEMPLE HEIGHTS DR. OCEANSIDE, CA. 92056-3512 (760)724-5300	
DRAWN BY P. ROSARIO	CHECKED P. BRAVO		
DRAWING APPROVAL P. BRAVO A. J. JIN		AW139 CABLE CUTTERS KIT	
CONTRACT NO.			
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 2 PLACE DECIMALS ±.01 3 PLACE DECIMALS ±.010 ANGLES ±.5°		REV. A	REV. A
SCALE: NONE	SHEET 2 OF 9		

DQA: _____ Date: _____

WORK ORDER NON-CONFORMANCE / UPDATE



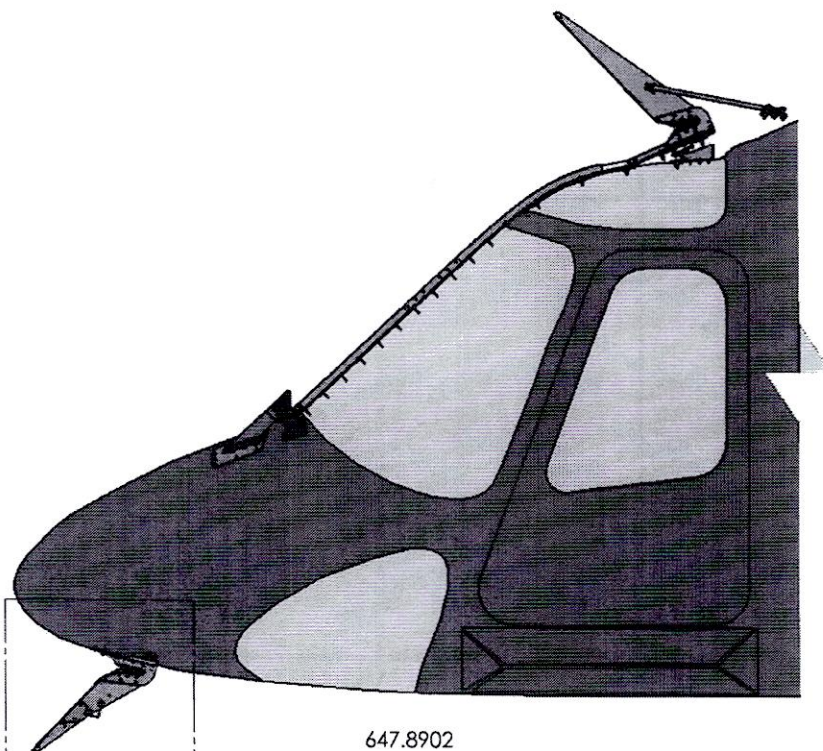
QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date :	Step #:	QTY Effective :		MRB (QSI042) Approval	
Description Work Order Deviation		Disposition		Completed By	
				Lead hand / Supervisor Approval Verification	
				QC / QA Coordinator Approval	
Root Cause		FAULT CATEGORY			
Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐	No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐	Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐	Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐	Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Misabeled ☐ Fit/Function ☐ Misaligned/off center ☐	Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐
OTHER : ☐					

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THE WRITTEN PERMISSION OF APICAL INDUSTRIES IS PROHIBITED

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED



DETAIL E



647.8902

CREATED DATE UNCL. ON FILE 05-17-10		APICAL INDUSTRIES 2608 TEMPLE HEIGHTS DR. OCEANSIDE, CA. 92056-3512 (760)724-5300	
DRAWN BY R. ROSANO	CHECKED P. BRAVO	AW139 CABLE CUTTERS KIT	
DRAWING APPROVAL DATE CONTRACT NO.		REV E	REV A
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE 2 PLACE DECIMALS ±.01 3 PLACE DECIMALS ±.005 ANGLES ±.5°		SCALE NONE	SHEET 3 OF 9

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

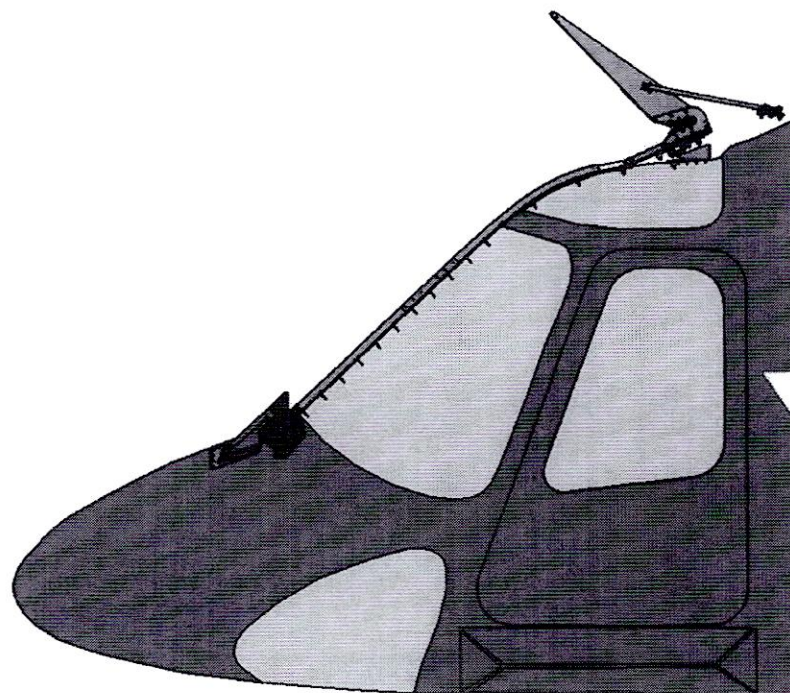
QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval		
Description Work Order Deviation				Disposition				Completed By	
								Lead hand / Supervisor Approval Verification	
								QC / QA Coordinator Approval	
Root Cause		FAULT CATEGORY							
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐				
Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐				
Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐				
Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐				
Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐				
Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐				
Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐				
Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐				
LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐				
Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐				
Past Expiry Date ☐	Manufacturing Process ☐	OTHER : _____							
Misidentified ☐	Past Due ☐								

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REVISING			
REV.	DESCRIPTION	DATE	APPROVED



647.8903

ORIGINAL DATE 05-17-10		APICAL INDUSTRIES	
DRAWN BY P. VICKS	CHECKED P. BRAVO	2608 TEMPLE HEIGHTS DR. OCEANSIDE, CA. 92056-3512 (760)724-5300	
DRAWING APPROVAL P. BRAVO 05-27-10		AW139 CABLE CUTTERS KIT	
CONTRACT NO.		SEE CAGE CODE B 07M26	DWG. NO. 647.8900
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 2 PLACE DECIMALS ±.01 3 PLACE DECIMALS ±.005 ANGLES ±.2°		SCALE NONE	REV. A
		SHEET 4 OF 9	

DQA: _____ Date: _____

WORK ORDER NON-CONFORMANCE / UPDATE



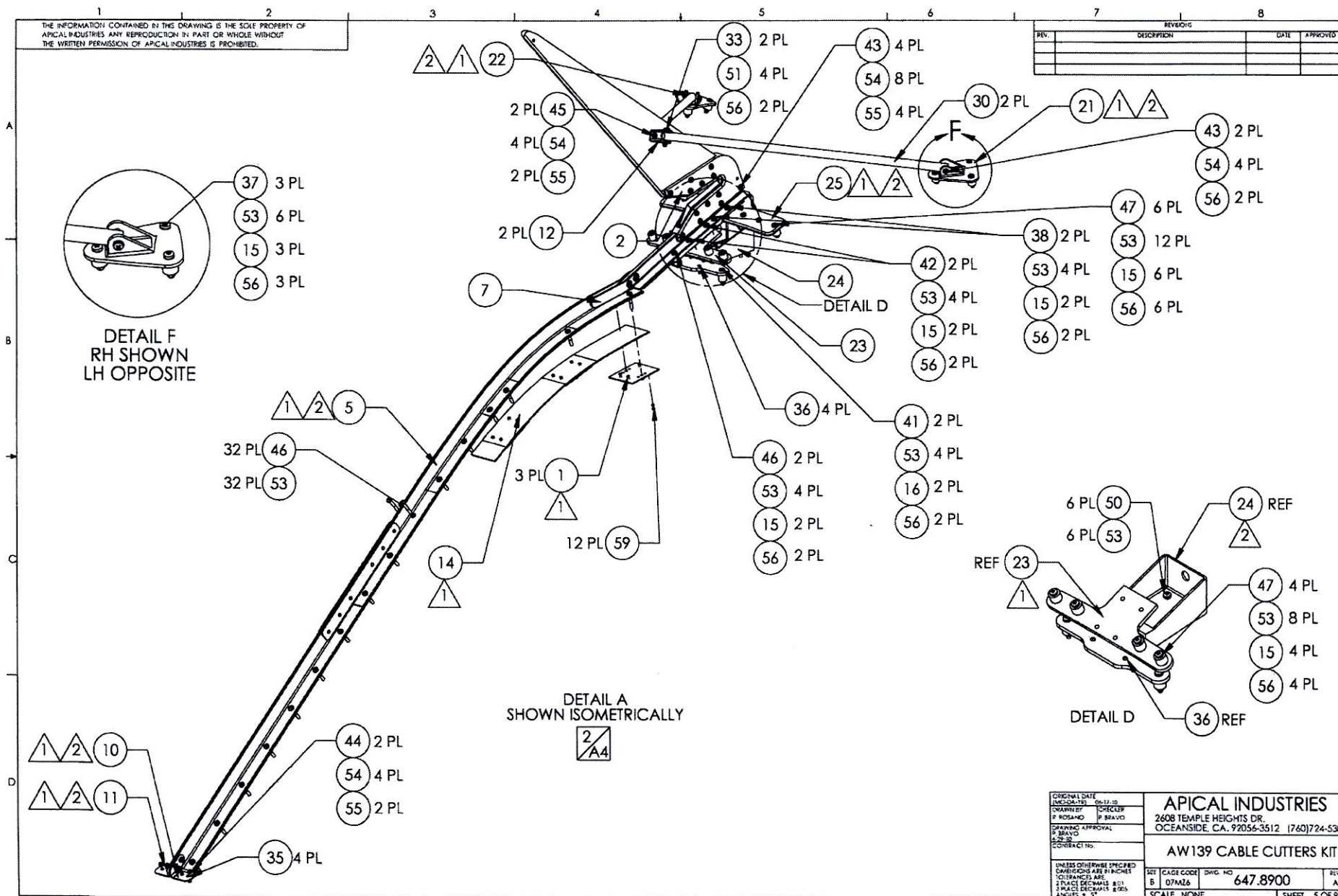
QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval		
Description Work Order Deviation				Disposition				Completed By	
								Lead hand / Supervisor Approval Verification	
Root Cause		FAULT CATEGORY							
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐				
Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐				
Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐				
Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐				
Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐				
Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐				
Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐				
Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐				
LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐				
Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐				
Past Expiry Date ☐	Manufacturing Process ☐	OTHER : _____							
Misidentified ☐	Past Due ☐								

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REV.	DESCRIPTION	DATE	APPROVED



ORIGINAL DATE	06-11-89
DESIGNED BY	P. ROSANO
CHECKED BY	P. BRAVO
DRAWING APPROVAL	P. BRAVO
CONTRACT NO.	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 2 PLACES DECIMALS ±.01 3 PLACES DECIMALS ±.005 ALL OTHERS ±.03	
SEE CASE CODE	DWG. NO.
B	07A26
SCALE	NONE
APICAL INDUSTRIES 2608 TEMPLE HEIGHTS DR. OCEANSIDE, CA. 92056-3512 (760)724-5300	
AW139 CABLE CUTTERS KIT	
REV	A
SHEET 5 OF 9	

DQA: _____ Date: _____

WORK ORDER NON-CONFORMANCE / UPDATE



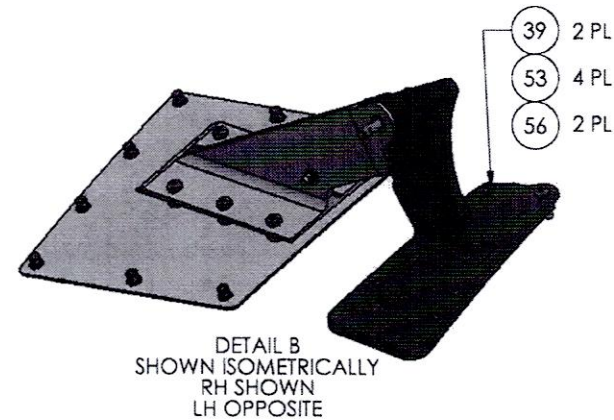
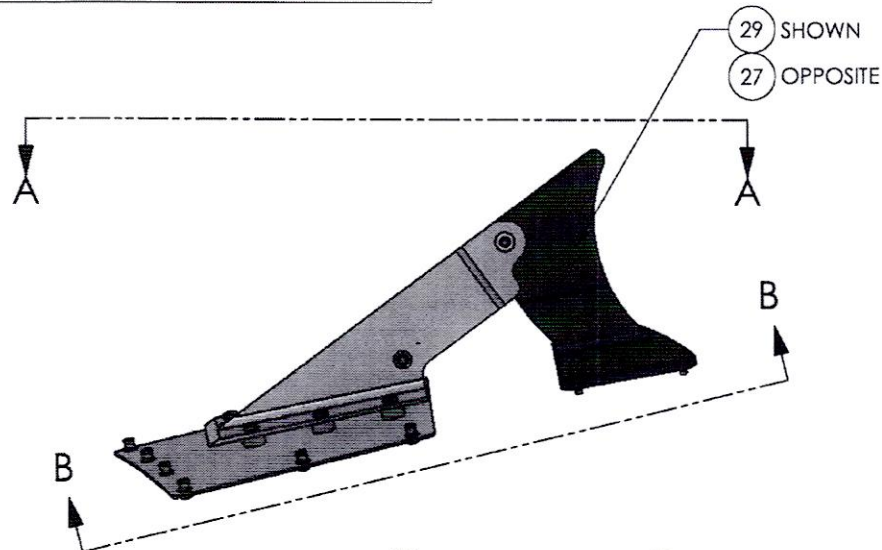
QA Closed: _____ Date: _____

Work Order update only ☐

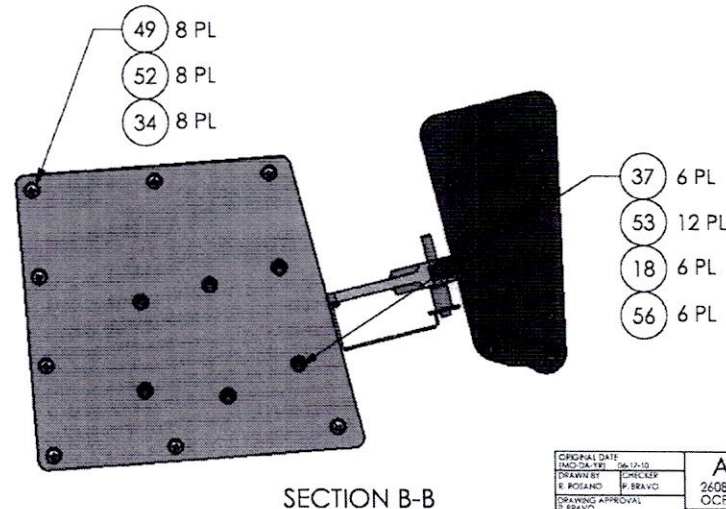
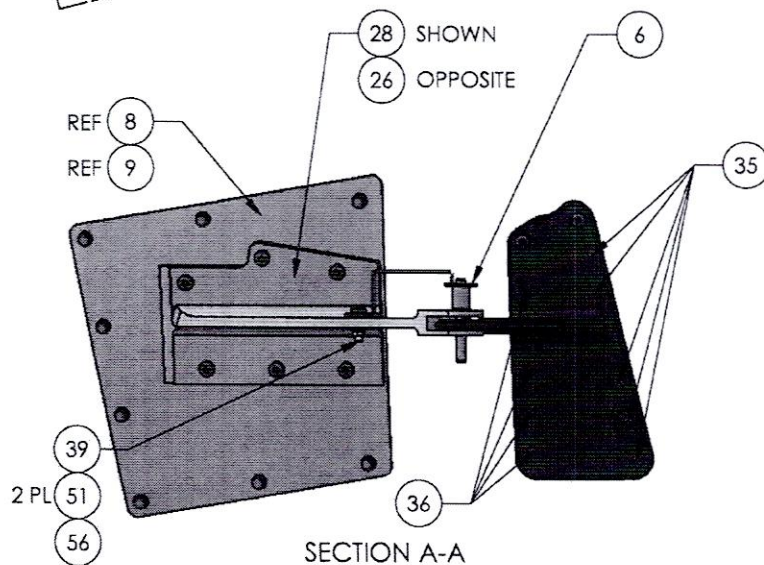
Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐																																																													
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval																																																										
Description Work Order Deviation				Disposition				Completed By																																																									
								Lead hand / Supervisor Approval Verification																																																									
								QC / QA Coordinator Approval																																																									
Root Cause		FAULT CATEGORY																																																															
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐	Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐	Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐	Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐	Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐	Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐	Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐	Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐	LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐	Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐	Past Expiry Date ☐	Manufacturing Process ☐	OTHER : _____			
Misidentified ☐	Past Due ☐																																																																

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REVISIONS		
REV.	DESCRIPTION	DATE



2/B3



ORIGINAL DATE: 10-10-10		APICAL INDUSTRIES	
DRAWN BY: E. ROSANO		2608 TEMPLE HEIGHTS DR.	
CHECKED BY: P. BRAVO		OCEANSIDE, CA. 92056-3512 (760)724-5300	
DRAWING APPROVAL: E. BRAVO		AW139 CABLE CUTTERS KIT	
CONTRACT NO:		SCALE: NONE	
UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES. TOLERANCES ARE: 2 PLACE DECIMALS ±.01, 3 PLACE DECIMALS ±.005, ANGLES ±.5°		REV: A	SHEET: 6 OF 9

DQA: _____ Date: _____

WORK ORDER NON-CONFORMANCE / UPDATE



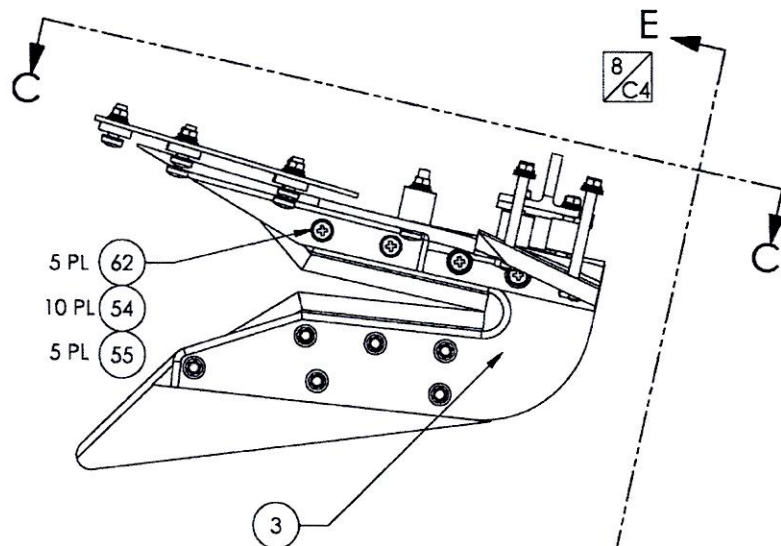
QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date : _____	Step #: _____	QTY Effective : _____		MRB (QSI042) Approval	
Description Work Order Deviation		Disposition		Completed By	
				Lead hand / Supervisor Approval Verification	
				QC / QA Coordinator Approval	
Root Cause		FAULT CATEGORY			
Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐	No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐	Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐	Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐	Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Misabeled ☐ Fit/Function ☐ Misaligned/off center ☐	Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐
OTHER : _____					

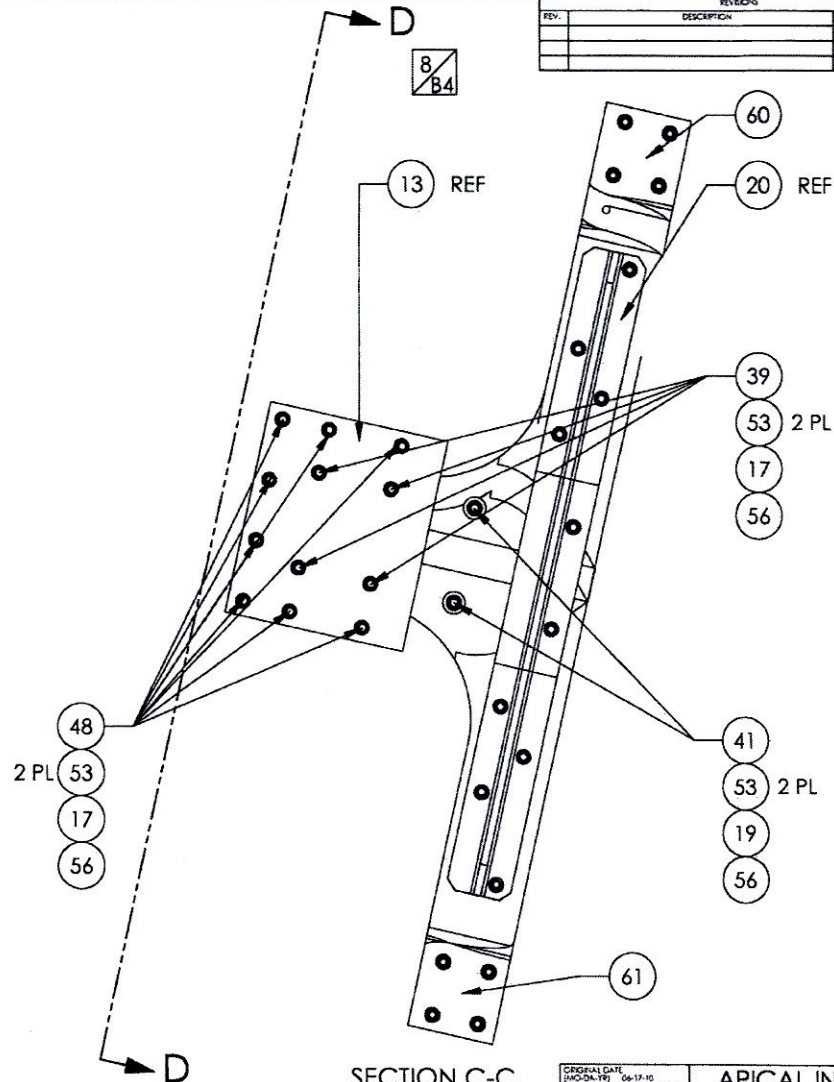
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REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED



DETAIL C

2
B4



SECTION C-C

ORIGINAL DATE 06-17-10		APICAL INDUSTRIES	
DRAWN BY R. ROSANO		2608 TEMPLE HEIGHTS DR. OCEANSIDE, CA. 92056-3512 (760)724-5300	
CHECKED BY P. BRAVO		AW139 CABLE CUTTERS KIT	
DRAWING APPROVAL P. BRAVO		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS DECIMALS .001 ANGLES ± .2°	
SIZE B	DWG. NO. 07M26	647.8900	REV. A
SCALE NONE		SHEET 7 OF 9	

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

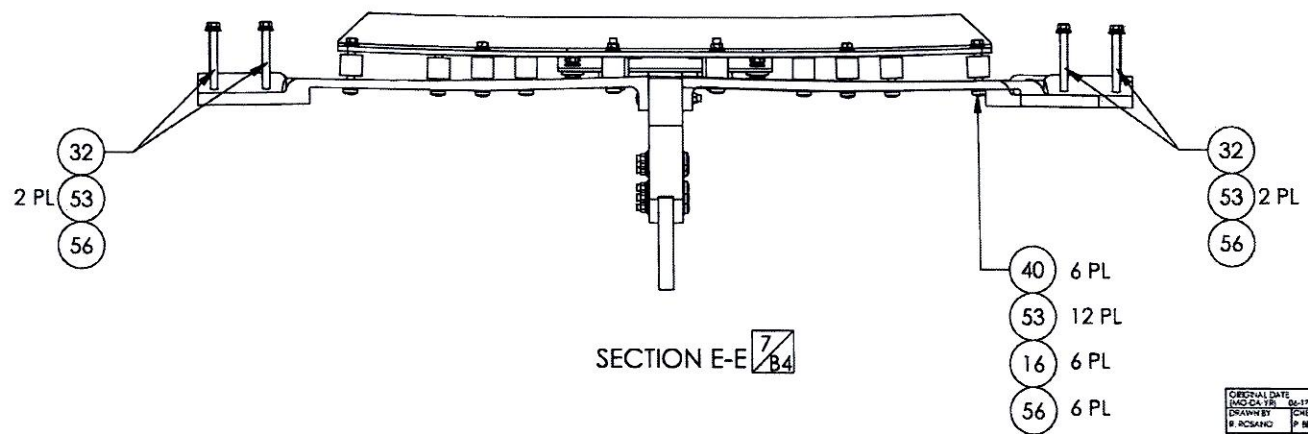
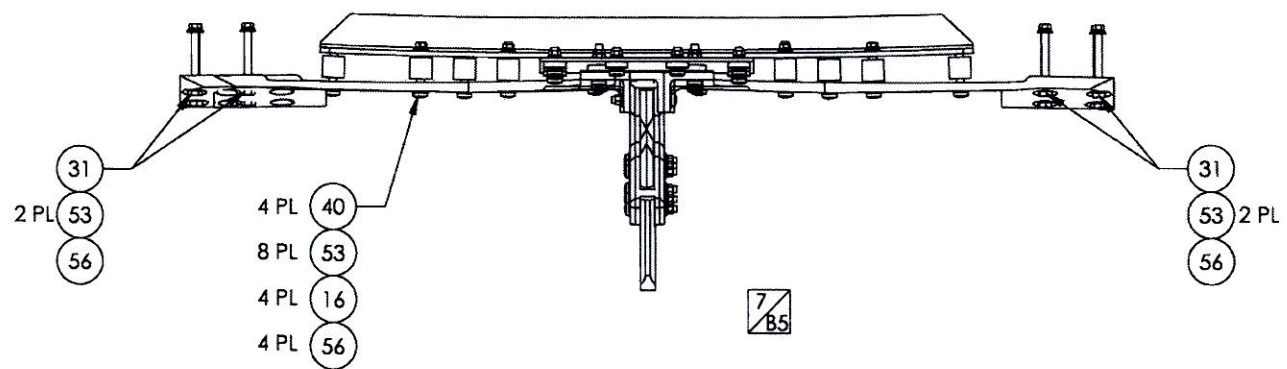
QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date :	Step #:	QTY Effective :		MRB (QSI042) Approval	
Description Work Order Deviation		Disposition		Completed By	
				Lead hand / Supervisor Approval Verification	
				QC / QA Coordinator Approval	
Root Cause		FAULT CATEGORY			
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐
Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐
Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐
Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐
Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐
Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐
Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐
Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐
LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐
Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐
Past Expiry Date ☐	Manufacturing Process ☐	OTHER : _____			
Misidentified ☐	Past Due ☐				

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REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED

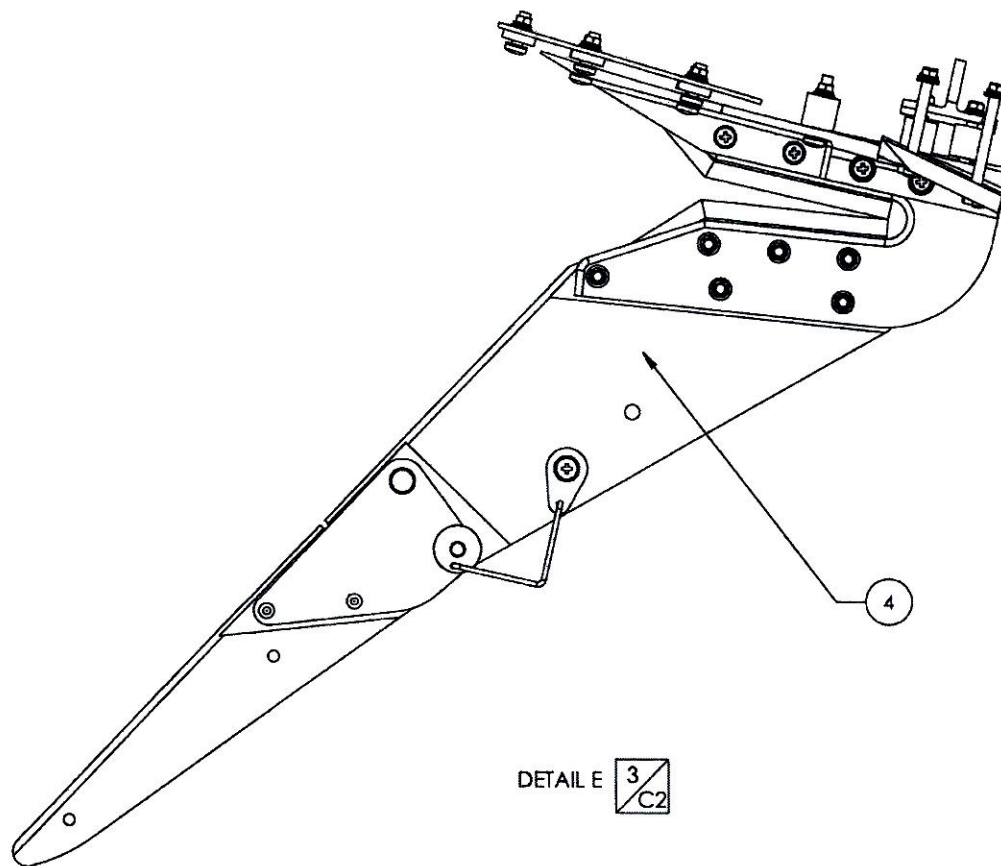


SECTION E-E $\frac{7}{8}$ B4

ORIGINAL DATE: 04/17/10		DRAWN BY: SCHICER	
DESIGNED BY: H. ROSANO		P. BRAVO	
DRAWING APPROVAL: P. BRAVO		DATE: 04/17/10	
CONTRACT NO.			
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 2 PLACE DECIMALS .00; 3 PLACE DECIMALS .000; ANGLES ± 5°			
APICAL INDUSTRIES 2608 TEMPLE HEIGHTS DR. OCEANSIDE, CA. 92056-3512 (760)724-5300		AW139 CABLE CUTTERS KIT	
SEE: B	CAGE CODE: 07M26	DWG. NO: 647.8900	REV:
SCALE: NONE		SHEET: 8 OF 9	

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REVISIONS		
REV.	DESCRIPTION	DATE



DETAIL E 3
C2

ORIGINAL DATE 06-17-10		APICAL INDUSTRIES	
DRAWN BY E. BOSANO		2608 TEMPLE HEIGHTS DR.	
CHECKED BY P. BRAVO		OCEANSIDE, CA. 92056-3512 (760)724-5300	
DRAWING APPROVAL P. BRAVO		AW139 CABLE CUTTERS KIT	
CONTRACT NO.			
UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES TOLERANCES ARE: 3 PLACE DECIMALS ±.01 ANGLES ± 5°		SHEET 8	REV A
CAGE CODE 07M26		DWG NO. 647.8900	SCALE NONE
		SHEET 9 OF 9	

REFERENCE ONLY

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NOTES:

1. AFTER INSTALLATION, APPLY F/N 57 A/R TO FILL GAPS AND FILLET EDGES.
2. APPLY F/N 58 TO FAYING SURFACES.

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
1	LAST PROTOTYPE RELEASE-PTI		PJC
2	INITIAL RELEASE	06-29-10	P. BRAYO
3	INCORPORATED ECHS 02990, 03011, 03277, 03279	11-26-11	P. BRAYO

5	5			5	5	62	601.3124	SCREW	MS27039-0824	
1	1			1	1	61	647.9317	RH BRACKET		
1	1			1	1	60	647.9310	LH BRACKET		
12	12	12	12	12	12	59	601.3186	RIVET	MS211415-04-04	
				1	1	58	601.2045	RTV	LOCTITE 598	2
				1	1	57	600.1012	SEALANT	PR-1425 CLASS B	2
46	46	34	50	82	82	56	601.2943	LOCKNUT	MS21042-3	
13	13		8	13	13	55	601.1541	LOCKNUT	MS21042-08	
30	30		20	30	30	54	601.2764	WASHER	NAS1149FN832P	
118	118	76	126	190	190	53	601.1032	WASHER	NAS1149FD332R	
		16	16	16	16	52	601.1869	WASHER	NAS1149CN832R	
8	8		8	8	8	51	601.1607	WASHER	NAS1149FD332P	
6	6		6	6	6	50	601.3190	SCREW	MS27039-1-13	
		16	16	16	16	49	601.3180	SCREW	MS27039-0804	
		8	8	8	8	48	601.3069	SCREW	MS27039-1-09	
10	10		10	10	10	47	601.3012	SCREW	MS27039-1-15	
34	34	8	34	34	34	46	601.2910	SCREW	MS27039-1-18	
2	2		2	2	2	45	601.2988	SCREW	MS27039-0813	
2	2		2	2	2	44	601.2893	SCREW	MS27039-0811	
6	6		6	6	6	43	601.2765	SCREW	MS27039-0819	
4	4		4	4	4	42	601.1956	SCREW	MS27039-1-21	
2	2		2	4	4	41	601.1954	SCREW	MS27039-1-17	
		10		10	10	40	601.1952	SCREW	MS27039-1-20	
6	6	4	6	10	10	39	601.1949	SCREW	MS27039-1-11	
4	4		4	4	4	38	601.1948	SCREW	MS27039-1-19	
6	6	12	18	18	18	37	601.1622	SCREW	MS27039-1-14	
.8906	.8905	.8904	.8903	.8902	.8901	FINO #	PART #	DESCRIPTION	MATL	SPEC.

12	12		12	12	12	36	601.3188	RIVET	MS211415-04-07	
14	14		14	14	14	35	601.3187	RIVET	MS211415-04-06	
		16	16	16	16	34	601.3189	INSERT	NAS1836-08-09	
2	2		2	2	2	33	601.2826	BOLT	ANG-11A	
4	4		4	4	4	32	601.1866	BOLT	NAS6203-26	
4	4		4	4	4	31	601.1850	BOLT	NAS6203-22D	
2	2		2	2	2	30	646.9910	STRUT		
1	1		1	1	1	29	647.9613	RH WIPER DEFLECTOR		
1	1		1	1	1	28	647.9612	RH FWD WIPER DEFLECTOR		
1	1		1	1	1	27	647.9611	LH WIPER DEFLECTOR		
1	1		1	1	1	26	647.9610	LH FWD WIPER DEFLECTOR		
1	1		1	1	1	25	647.9916	CROSSBAR BRACKET		
1	1		1	1	1	24	647.9315	RECEPTACLE BRACKET		
1	1		1	1	1	23	647.9314	RETAINER BRACKET		
1	1		1	1	1	22	647.9313	BRACKET		
1	1		1	1	1	21	647.9312	BRACKET		
		1		REF	REF	20	647.9311	SUPPORT BRACKET		
				2	2	19	647.9114	THRUSERT		
		12	12	12	12	18	647.9113	THRUSERT		
		12	12	12	12	17	647.9112	THRUSERT		
2	2	10	2	12	12	16	647.9111	THRUSERT		
25	25	20	26	26	26	15	647.9110	THRUSERT		
		1	1	1	1	14	647.9016	DOUBLER		2
				REF	REF	13	647.9015	DOUBLER		
2	2		2	2	2	12	647.9014	STRUT BRACKET		
1	1		1	1	1	11	647.9013	FWD CLIP		
1	1		1	1	1	10	647.9012	FWD CLIP		2
		1		REF	REF	9	647.9011	DOUBLER		
		1		REF	REF	8	647.9010	DOUBLER		
1	1		1	1	1	7	647.9801	MOUNTING TEE ASSY		
2	2		2	2	2	6	647.9801	QUICK RELEASE PIN ASSY		
1	1		1	1	1	5	647.9401	DEFLECTOR ASSY		
						4	647.9203	LOWER CUTTER LONG ASSY		
1						3	647.9202	LOWER CUTTER ASSY		
1	1		1	1	1	2	647.9201	UPPER CUTTER ASSY		
		3	3	3	3	1	647.9001	DOUBLER ASSY		
							647.8906	AW139 CABLE CUTTERS REMOVABLE PROVISIONS KIT		
							647.8905	AW139 CABLE CUTTERS REMOVABLE PROVISIONS KIT LONG		
							647.8904	AW139 CABLE CUTTERS FIXED PROVISIONS KIT		
							647.8903	AW139 UPPER CABLE CUTTERS KIT		
							647.8902	AW139 CABLE CUTTERS KIT LONG		
							647.8901	AW139 CABLE CUTTERS KIT		

QTY		PARTS LIST	
NEXT ASSY (S)		APICAL INDUSTRIES	
		2608 TEMPLE HEIGHTS DR. OCEANSIDE, CA. 92056-3512 (760)724-5300	
ORIGINAL DATE 06-12-10 DRAWN BY P. BRAYO CHECKED BY P. BRAYO APPROVAL P. BRAYO DATE 06-12-10		AW139 CABLE CUTTERS KIT	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 3 PLACE DECIMALS ±.015 3 PLACE DECIMALS ±.010 3 PLACE DECIMALS ±.005			
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Work Order ID 165523

Friday, August 25, 2017 8:01:14 AM

165523

8/28/17

Page 1

Item ID: 647.8902

Revision ID:

Item Name: AW139 Cable Cutter System, Long

Start Date: 8/25/2017 Start Qty: 1.00

Required Date: 8/28/2017 Req'd Qty: 1.00

Reference:

Accept

N900040100

Setup Start *NS1*

Stop *NS2*

Cust Item ID:

Customer:

Approvals:

Process Plan:

Date: AUG 25 2017

Tooling:

Date:

Run Start *NR1*

QC:

Date:

SPC (Y/N):

Date:

Stop *NR2*

Sequence ID/
Work Center ID

Operation
Description

Set Up/
Run Hours

Tool ID

Tool #

Plan
Code

Accept
Qty

Reject
Qty

Reject
Number

Insp.
Stamp

Draw Nbr

Revision Nbr

647.8900

A

AUG 25 2017

SD

100

Document Control

0.00

100

DC

DOCUMENT CONTROL

Memo

0.00

Doc.Control -USB or Paperwork

Photocopy bluefile & type labels per PPP 647.8902

DAS
5
9-89

AUG 28 2017

110

Pick Kit

0.00

110

Packaging

Memo

0.00

Packaging

120

QC4- 100% Inspect kits for completeness

0.00

120

QC

Memo

0.03

Quality Control